

SEQUENCE LISTING

(1) GENERAL INFORMATION

(i) APPLICANTS: ELAZAR RABBANI  
JANNIS G. STAVRIANOPoulos  
JAMES J. DONEGAN  
DAKAI LIU  
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DEAN L. ENGELHARDT

(ii) TITLE OF INVENTION: NOVEL PROPERTY EFFECTING AND/OR PROPERTY EXHIBITING COMPOSITIONS FOR THERAPEUTIC AND DIAGNOSTIC USE

(iii) NUMBER OF SEQUENCES: 42

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: ENZO THERAPEUTICS, INC.  
(B) STREET: C/O ENZO BIOCHEM, INC.  
527 MADISON AVENUE, 9<sup>TH</sup> FLOOR  
(C) CITY: NEW YORK  
(D) STATE: NY  
(E) COUNTRY: USA  
(F) ZIP: 10022

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5" Micro Floppy Disk. 1.44 KB  
STORAGE  
(B) COMPUTER: IBM PC/XT/AT, IBM PS/2 OR COMPATIBLES  
(C) OPERATING SYSTEM: PC-DOS  
(D) SOFTWARE: MICROSOFT WORD - ASCII TEXT (DOS)

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/978,635  
(B) FILING DATE: 25-NOVEMBER-1997  
(C) CLASSIFICATION: Not Yet Known

(vii) ATTORNEY/AGENT INFORMATION:

(A) NAME: FEDUS, RONALD C.  
(B) REGISTRATION NUMBER: 32,567  
(C) REFERENCE/DOCKET NUMBER: ENZ-53(D4)

(viii) TELECOMMUNICATION INFORMATION

(A) TELEPHONE: (212) 583-0100  
(B) TELEFAX: (212) 583-0150

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

(2) INFORMATION FOR SEQ ID NO: 1

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 20 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

**ENZ-53(D4)**

- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

Gly Phe Phe Gly Ala Ile Ala Gly Phe Leu Glu Gly Gly Trp Glu Gly  
 1 10 15

Met Ile Ala Gly  
 20

## (3) INFORMATION FOR SEQ ID NO. 2:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

TGCTCTCTAA GGGTCTACTC

20

## (4) INFORMATION FOR SEQ ID NO. 3:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 15 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

CTCTAAGGTA AATAT

15

## (5) INFORMATION FOR SEQ ID NO. 4:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 16 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

TGTATTTAG ATTCAA

16

## (6) INFORMATION FOR SEQ ID NO. 5:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 19 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

TGCTCTCTAA GGTAAATAT

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## (7) INFORMATION FOR SEQ ID NO. 6:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 19 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

TGTATTTAG GGTCTACTC

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## (8) INFORMATION FOR SEQ ID NO. 7:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 19 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: mRNA
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

UGCUCUCUAA GGUAAAUAU

19

## (9) INFORMATION FOR SEQ ID NO. 8:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 19 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: mRNA
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

UGUAUUUUAG GGUCUACUC

19

## (10) INFORMATION FOR SEQ ID NO. 9:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: mRNA
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

UGCUCUCUAA GGGUCUACUC

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## (11) INFORMATION FOR SEQ ID NO. 10:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 49 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

GGAATTCTGTC TCGAGCTCTG ATCACCACCA TGGACACGAT TAACATCGC

49

## (12) INFORMATION FOR SEQ ID NO. 11:

**ENZ-53(D4)**

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 55 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

GACTAGTTGG TCTCGTCTCT TTTTGAGG AGTGTGTTT TTAGCGATGT TAATC

55

## (13) INFORMATION FOR SEQ ID NO. 12:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 46 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

GGAATTCGTC TCGGAGAAAG GTAAAATTCT CTGACATCGA ACTGGC

46

## (14) INFORMATION FOR SEQ ID NO. 13:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 33 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

GACTAGTGGT CTCCCCTTAG AGAGCATGTC AGC

33

## (15) INFORMATION FOR SEQ ID NO. 14:

- (i) SEQUENCE CHARACTERISTICS:

**ENZ-53(D4)**

(A) LENGTH: 33 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid  
 (A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

GGAATTCGGT CTCGGGTCTA CTCGGTGGCG AGG

33

## (16) INFORMATION FOR SEQ ID NO. 15:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 27 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid  
 (A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

GACTAGTCGT TACGCGAACG CAAAGTC

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## (17) INFORMATION FOR SEQ ID NO. 16:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 36 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid  
 (A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

GGAATTCGTC TCTAAGGTAA ATATAAAATT TTAAAG

36

## (18) INFORMATION FOR SEQ ID NO. 17:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 40 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single

(D) TOPOLOGY linear

(ii) MOLECULE TYPE: other nucleic acid  
(A) Description: /desc "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

GACTAGTCGT CTCTGACCT AAAATACACA AACAAATTAGA

40

(19) INFORMATION FOR SEQ ID NO. 18:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 92 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

GGAATTCGTC TCGAGCTCTG ATCACCACCA TGGACACGAT TAACATCGCT AAGAACGACA

60

CTCCTCCAAA AAAGAGACGA GACCAACTAG TC

92

(20) INFORMATION FOR SEQ ID NO. 19:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 46 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

GGAATTCGTC TCGGAGAAAG GTAAAATTCT CTGACATCGA ACTGGC

46

(21) INFORMATION FOR SEQ ID NO. 20:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 106 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

GGAATTCGTC TCGAGCTCTG ATCACCAACCA TGGACACGAT TAACATCGCT AAGAACGACA 60  
 CTCCTCCAAA AAAGAGAAAG GTAAAATCT CTGACATCGA ACTGGC 106

## (22) INFORMATION FOR SEQ ID NO. 21

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 50 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

ATGGACACGA TTAACATCGC TAAGAACGAC TTCTCTGACA TCGAACTGGC 50

## (23) INFORMATION FOR SEQ ID NO. 22:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 77 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

ATGGACACGA TTAACATCGC TAAGAACGAC ACTCCTCCAA AAAAGAGAAA GGTAAAATTC 60  
 TCTGACATCG AACTGGC 77

## (24) INFORMATION FOR SEQ ID NO. 23:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 69 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid

(A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

GATCATTAGA CCAGATCTGA GCCTGGGAGC TCTCTGGCTA ACTAGGGAAC CCACTGCTTA 60

AGCCTCAAG 69

(25) INFORMATION FOR SEQ ID NO. 24:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

GATCCTTGAG GCTTAAGCAG TGGGTTCCCT AGTTAGCCAG AGAGCTCCCA GGCTCAGATC 60

TGGTCTAAT 69

(26) INFORMATION FOR SEQ ID NO. 25:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

GATCACCTTA GGCTCTCCTA TGGCAGGAAG AAGCGGAGAC AGCGACGAAG ACCTCCTCAA 60

G 61

(27) INFORMATION FOR SEQ ID NO. 26:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid  
 (A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

GATCCTTGAG GAGGTCTTCG TCGCTGTCTC CGCTTCTTCC TGCCATAGGA GAGCCTAAGG 60

T 61

(28) INFORMATION FOR SEQ ID NO. 27:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 62 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid  
 (A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

GATCATAGTG AATAGAGTTA GGCAGGGATA CTCACCATT A TCGTTTCAGA CCCACCTCCC 60

AG 62

(29) INFORMATION FOR SEQ ID NO. 28:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 62 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid  
 (A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 28:

GATCCTGGGA GGTGGGTCTG AAACGATAAT GGTGAGTATC CCTGCCTAAC TCTATTCACT 60

AT 62

(30) INFORMATION FOR SEQ ID NO. 29:

**ENZ-53(D4)**

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 30 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (iv) ORIGINAL SOURCE:
  - (A) ORGANISM: TER-1
- (x) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

AATCTAGAGC TAACAAAGCC CGAAAGGAAG

30

## (31) INFORMATION FOR SEQ ID NO. 30:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 28 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

TTCTGCAGAT ATAGTTCCCTC CTTTCAGC

28

## (32) INFORMATION FOR SEQ ID NO. 31:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 70 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

TCGAGCCATG GCTTAAGGAT CCGTACGTCC GGAGCTAGCG GGCCCATCGA TACTAGTTAA 60

ATGCAGATCT

70

## (33) INFORMATION FOR SEQ ID NO. 32:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 70 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

CTAGAGATCT GCATTTAAC <del>T</del> AGTATCGATG GGCCCGCTAG CTCCGGACGT ACGGATCCTT	60
AAGCCATGGC	70

## (34) INFORMATION FOR SEQ ID NO. 33:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 29 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

CATGAAATTA ATTCGACTCA CTATACGGA	29
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## (35) INFORMATION FOR SEQ ID NO. 34:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 29 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

TTAAATTAAG CTGAGTGATA TGCCCTCTAG	29
----------------------------------	----

GATCCGGACC TTGAGGAGGT CTTCGTCGCT GTCTCCGCTT CTTCCTGCCA TAGGAGAGCC 60  
 TAAGGT 66

## (39) INFORMATION FOR SEQ ID NO. 38:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 66 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 38:

CCGGACCTTA GGCTCTCCTA TGGCAGGAAG AAGCGGAGAC AGCGACGAAG ACCTCCTCAA 60  
 GGTCCG 66

## (40) INFORMATION FOR SEQ ID NO. 39:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 65 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 39:

GATCCGGATG GGAGGTGGGT CTGAAACGAT AATGGTGAGT ATCCCTGCCT AACTCTATTG 60  
 ACTAT 65

## (41) INFORMATION FOR SEQ ID NO. 40

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 65 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 40:

CCGGATAGTG AATAGAGTTA GGCAGGGATA CTCACCATTA TCGTTTCAGA CCCACCTCCC 60  
 ATCCG 65

(42) INFORMATION FOR SEQ ID NO. 41:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 67 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 41:

GATCAGCATG CCTGCAGGTC GACTCTAGAC CCGGGTACCG AGCTGCCCT ATAGTGAGTC 60  
 GTATTAT 67

(43) INFORMATION FOR SEQ ID NO. 42:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 67 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 42:

CCGGATAATA CGACTCACTA TAGGGCGAGC TCGGTACCCG GGTCTAGAGT CGACCTGCAG 60  
 GCATGCT 67



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